

## Environmental Protection Agency

**§ 461.15**

### (4) Subpart A—Nickel Impregnated Cathodes—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied English units—pounds per 1,000,000 pounds of nickel applied	
Cadmium .....	68.0	30.0
Nickel .....	384.0	254.0
Zinc .....	292.0	122.0
Cobalt .....	42.0	18.0

### (5) Subpart A—Miscellaneous Wastewater Streams—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced English units—pounds per 1,000,000 pounds of cells produced	
Cadmium .....	0.79	0.35
Nickel .....	4.47	2.96
Zinc .....	3.40	1.42
Cobalt .....	0.49	0.21

### (6) Subpart A—Cadmium Powder Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium powder produced English units—pounds per 1,000,000 pounds of cadmium powder produced	
Cadmium .....	2.23	0.99
Nickel .....	12.61	8.34
Zinc .....	9.59	4.01
Cobalt .....	1.38	0.59

### (7) Subpart A—Silver Powder Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced English units—pounds per 1,000,000 pounds of silver powder produced	
Cadmium .....	1.09	0.48
Nickel .....	6.16	4.08
Silver .....	1.32	0.55
Zinc .....	4.69	1.96
Cobalt .....	0.67	0.29

### (8) Subpart A—Cadmium Hydroxide Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium used English units—pounds per 1,000,000 pounds of cadmium used	
Cadmium .....	0.05	0.02
Nickel .....	0.27	0.18
Zinc .....	0.20	0.09
Cobalt .....	0.03	0.012

### (9) Subpart A—Nickel Hydroxide Production—PSES.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel used English units—pounds per 1,000,000 pounds of nickel used	
Cadmium .....	5.61	2.48
Nickel .....	31.68	20.96
Zinc .....	24.09	10.07
Cobalt .....	3.47	1.49

(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

### § 461.15 Pretreatment standards for new sources (PSNS).

(a) Except as provided in 40 CFR 403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for new sources listed below:

#### (1) Subpart A—Electrodeposited Anodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium English units—pounds per 1,000,000 pounds of cadmium	
Cadmium .....	7.03	2.81
Nickel .....	19.33	13.01
Zinc .....	35.85	14.76
Cobalt .....	4.92	2.46

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(2) Subpart A—Impregnated Anodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium English units—pounds per 1,000,000 pounds of cadmium	
Cadmium .....	40.0	16.0
Nickel .....	110.0	74.0
Zinc .....	204.0	84.0
Cobalt .....	28.0	14.0

(3) Subpart A—Nickel Electrodeposited Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied English units—pounds per 1,000,000 pounds of nickel applied	
Cadmium .....	6.60	2.64
Nickel .....	18.15	12.21
Zinc .....	33.66	13.86
Cobalt .....	4.62	2.31

(4) Subpart A—Nickel Impregnated Cathodes—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel applied English units—pounds per 1,000,000 pounds of nickel applied	
Cadmium .....	40.0	16.0
Nickel .....	110.0	74.0
Zinc .....	204.0	84.0
Cobalt .....	28.0	14.0

(5) Subpart A—Miscellaneous Wastewater Streams—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cells produced English units—pounds per 1,000,000 pounds of cells produced	
Cadmium .....	0.47	0.19
Nickel .....	1.28	0.86
Zinc .....	2.38	0.98
Cobalt .....	0.33	0.16

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(6) Subpart A—Cadmium Powder Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium powder produced English units—pounds per 1,000,000 pounds of cadmium powder produced	
Cadmium .....	1.31	0.53
Nickel .....	3.61	2.43
Zinc .....	6.70	2.76
Cobalt .....	0.92	0.46

(7) Subpart A—Silver Powder Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of silver powder produced English units—pounds per 1,000,000 pounds of silver powder produced	
Cadmium .....	0.64	0.26
Nickel .....	1.77	1.19
Silver .....	0.93	0.39
Zinc .....	3.27	1.35
Cobalt .....	0.45	0.22

(8) Subpart A—Cadmium Hydroxide Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of cadmium used English units—pounds per 1,000,000 pounds of cadmium used	
Cadmium .....	0.028	0.011
Nickel .....	0.077	0.051
Zinc .....	0.142	0.058
Cobalt .....	0.019	0.009

(9) Subpart A—Nickel Hydroxide Production—PSNS.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of nickel used English units—pounds per 1,000,000 pounds of nickel used	
Cadmium .....	3.30	1.32
Nickel .....	9.08	6.11
Zinc .....	16.83	6.93
Cobalt .....	2.31	1.16

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(b) There shall be no discharge allowance for process wastewater pollutants from any battery manufacturing operation other than those battery manufacturing operations listed above.

### Subpart B—Calcium Subcategory

#### § 461.20 Applicability; description of the calcium subcategory.

This subpart applies to discharges to waters of the United States and introductions of pollutants into publicly owned treatment works from manufacturing calcium anode batteries.

#### §§ 461.21–461.22 [Reserved]

#### § 461.23 New source performance standards (NSPS).

(a) The discharge of wastewater pollutants from any new source subject to this subpart shall not exceed the standards set forth below.

(b) There shall be no discharge for process wastewater pollutants from any battery manufacturing operations.

#### § 461.24 [Reserved]

#### § 461.25 Pretreatment standards for new sources (PSNS).

(a) Except as provided in § 403.7 any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the pretreatment standards for new sources listed below.

(b) There shall be no discharge for process wastewater pollutants from any battery manufacturing operations.

### Subpart C—Lead Subcategory

#### § 461.30 Applicability; description of the lead subcategory.

This subpart applies to discharges to waters of the United States and introduction of pollutants into publicly owned treatment works from the manufacturing of lead anode batteries.

#### § 461.31 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

(a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(1) Subpart C—Closed Formation—Double Fill, or Fill and Dump.

##### BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units—pounds per 1,000,000 pounds of lead used	
Copper .....	0.86	0.45
Lead .....	0.19	0.090
Iron .....	0.54	0.27
Oil and grease .....	9.00	5.40
TSS .....	18.45	8.78
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(2) Subpart C—Open Formation—Dehydrated.

##### BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—mg/kg of lead used	
	English units—pounds per 1,000,000 pounds of lead used	
Copper .....	20.99	11.05
Lead .....	4.64	2.21
Iron .....	16.13	6.74
Oil and grease .....	221.00	132.60
TSS .....	453.05	215.47
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(3) Subpart C—Open Formation—Wet.